



# **TRAFFIC & TRANSPORT PSYCHOLOGY**

**Theory and Application**

*Edited by  
Talib Rothengatter  
& Raphael D. Huguenin*

# Traffic And Transport Psychology Theory And Application

**Graham Currie**



## **Traffic And Transport Psychology Theory And Application:**

*Traffic and Transport Psychology* Geoffrey Underwood, 2005-06-09 Just as our transport systems become more and more important to our economic and social well being so they become more and more crowded and more at risk from congestion disruption and collapse Technology and engineering can provide part of the solution but the complete solution will need to take account of the behaviour of the users of the transport networks The role of psychologists in this is to understand how people make decisions about the alternative modes of transport and about the alternative routes to their destinations to understand how novice and other vulnerable users can develop safe and effective behaviours how competent users can operate within the transport system optimally and within their perceptual and cognitive limitations The contributions to this volume address these issues of how the use of our transport systems can be improved by taking into account knowledge of the behaviour of the people who use the systems Topics discussed include driver training and licensing driver impairment road user attitudes and behaviour enforcement and behaviour change driver support systems and the psychology of mobility and transport mode choice This work will be of value not only to psychologists but to all transport professionals interested in the application of psychology to traffic

**Traffic and Transport Psychology** Talib Rothengatter, Raphael Denis Huguenin, 2004-07-15 This volume gives an overview of the trends in Traffic and Transport Psychology It reflects the considerable development of the most important factors for driving a road vehicle and the variety of international research approaches The first part contains basic approaches and integrated models as well as general theories and their implementation into Traffic and Transport Psychology The second part deals with the driver especially cognition performance social and differential effects and impairment Important aspects are treated such as speed perception reaction times interaction risk acceptance aggression and gender differences Special chapters refer to performance and fatigue The third part focuses on safety driver support selection and influencing drivers by enforcement training and programs for the rehabilitation of traffic offenders Classic ergonomic methods are discussed as well as modern telematic devices or trends regarding driver assessment In the last part current developments are presented in relation to better mobility and the protection of the environment Questions are asked such as whether we could reduce the use of cars how travel behaviour can be modified or to what extent the use of alternatives to motor vehicles benefits safety as well as the environment This work is not only important for psychologists It should be read by all transport professionals interested in the application of psychology to traffic

**Traffic & Transport Psychology** Talib Rothengatter, Enrique Carbonell Vaya, 1997 **Traffic and Transport Psychology** Talib Rothengatter, Raphael D. Huguenin, 2005 **TRAFFIC and Transport Psychology** Raphael D. Huguenin, Talib Rothengatter, 2004 *Traffic and Transport Psychology* Talib Rothengatter, Raphael Denis Huguenin, 2004-09-08 This volume gives an overview of the trends in Traffic and Transport Psychology It reflects the considerable development of the most important factors for driving a road vehicle and the variety of international research

approaches The first part contains basic approaches and integrated models as well as general theories and their implementation into Traffic and Transport Psychology The second part deals with the driver especially cognition performance social and differential effects and impairment Important aspects are treated such as speed perception reaction times interaction risk acceptance aggression and gender differences Special chapters refer to performance and fatigue The third part focuses on safety driver support selection and influencing drivers by enforcement training and programs for the rehabilitation of traffic offenders Classic ergonomic methods are discussed as well as modern telematic devices or trends regarding driver assessment In the last part current developments are presented in relation to better mobility and the protection of the environment Questions are asked such as whether we could reduce the use of cars how travel behaviour can be modified or to what extent the use of alternatives to motor vehicles benefits safety as well as the environment This work is not only important for psychologists It should be read by all transport professionals interested in the application of psychology to traffic

**Transportation, Traffic Safety and Health – Human Behavior** Hans von Holst,Ake Nygren,Ake E. Andersson,2012-12-06 The focus of this book is to present the latest aspects in the area of human behavior and its relation to planning of an optimal traffic safety The contributions from authors in various disciplines such as scientists medical practitioners administrators and practitioners from the car industry examine how road user behavior can cause accidents and how decision makers from various sectors of society may influence road users behavior The development of modern vehicles and new traffic systems requires more sophisticated behavior and technology New medical technologies such as improved neuropsychologic methods and descriptive mapping of behavior with imaging techniques facilitate the understanding of the anatomy and physiology of human behavior The increased knowledge of normal and pathologic behavior contributes to strengthen primary prevention with the goal of reducing traffic accidents

**Current Literature in Traffic and Transportation** ,1998 **Handbook of Traffic Psychology** Bryan E. Porter,2011-06-22 The Handbook of Traffic Psychology covers all key areas of research in this field including theory applications methodology and analyses variables that affect traffic driver problem behaviors and countermeasures to reduce risk on roadways Comprehensive in scope the methodology section includes case control studies self report instruments and methods field methods and naturalistic observational techniques instrumented vehicles and in car recording techniques modeling and simulation methods in vivo methods clinical assessment and crash datasets and analyses Experienced researchers will better understand what methods are most useful for what kinds of studies and students can better understand the myriad of techniques used in this discipline Focuses specifically on traffic as opposed to transport Covers all key areas of research in traffic psychology including theory applications methodology and analyses variables that affect traffic driver problem behaviors and countermeasures to reduce the risk of variables and behavior Contents include how to conduct traffic research and how to analyze data Contributors come from more than 10 countries including US UK Japan Netherlands Ireland Switzerland Mexico Australia Canada Turkey

France Finland Norway Israel and South Africa      Traffic Psychology Today Pierre-Emmanuel Barjonet, 2013-03-14 After several decades of research practice intervention and instruction traffic psychology is in need of a summary work outlining the main trends in the discipline Traffic Psychology Today provides a theoretical basis of the topic a summary of the acquired research in the field practical applications for government planners and a critical discussion of future trends Through a series of chapters contributed by an international group of researchers under the general editorship of Pierre Barjonet Traffic Psychology Today comprehensively synthesizes thinking in the psychology of traffic from its inception in the mid 1950s through the present day      Proceedings of the 5th International Conference on Rehabilitation and Maintenance in Civil Engineering Stefanus Adi Kristiawan, Buntara S. Gan, Mohamed Shahin, Akanshu Sharma, 2022-09-01 This book is a collection of papers presented at the 5th International Conference on Rehabilitation and Maintenance in Civil Engineering ICRMCE 2021 held in Surakarta Indonesia The papers are grouped into sequential themes representing the structure of this book o Part 1 Factors affecting building and infrastructure performance o Part 2 Testing and inspection of existing building and infrastructure o Part 3 Protection maintenance repair and retrofitting of building and infrastructure o Part 4 Maintenance management of building and infrastructure o Part 5 Service life modelling of building and infrastructure o Part 6 Hazard mitigation o Part 7 Sustainability aspect in civil engineering design process modelling maintenance and rehabilitation Postgraduate students researchers and practitioners specializing and working in the area of protection maintenance repair and retrofitting of civil engineering infrastructures will find this book very useful      *Traffic Safety and Human Behavior* David Shinar, 2007-10-05 Describes the basic research procedures used in the area of driving behavior and highway safety      *Human Performance and Ergonomics* Peter A. Hancock, 1999-04-13 Human Performance and Ergonomics brings together a comprehensive and modern account of how the context of performance is crucial to understanding behavior Environment provides both constraints and opportunities to individuals such that external conditions may have reciprocal or interactive effects on behavior The book begins with an account of research in human factors and engineering with application of research to real world environments methodological concerns and rumination on current and future trends The book proceeds to how technology has moved from being designed to help human physical survival to helping humans achieve quality of life improvements Real world examples are explored in detail including hearing technology driving and aviation Issues of control maneuvering and planning are discussed in conjunction with how intention and expectancy affect behavior The fit between human and environment is examined as a dynamic interaction and many chapters address the all important human machine communication particularly that between humans and computers The book closes with a reminder that even our technological environment is filled with other people with whom we must interact personally or via technology to achieve our larger goals Teamwork is thus discussed for its integration of cognitive behavioral and affective components toward our achieving desired aims Includes the application of research in human factors in engineering to real

world environments Discussion of both current and future trends is included Real world examples of how technology is now helping humans to achieve quality of life improvements are explored in detail including hearing technology driving and aviation Many chapters examine the all important human machine communication particularly human computer interaction HCI

**Data Science and Simulation in Transportation Research** Janssens, Davy, Yasar, Ansar-Ul-Haque, Knapen, Luk, 2013-12-31 Given its effective techniques and theories from various sources and fields data science is playing a vital role in transportation research and the consequences of the inevitable switch to electronic vehicles This fundamental insight provides a step towards the solution of this important challenge Data Science and Simulation in Transportation Research highlights entirely new and detailed spatial temporal micro simulation methodologies for human mobility and the emerging dynamics of our society Bringing together novel ideas grounded in big data from various data mining and transportation science sources this book is an essential tool for professionals students and researchers in the fields of transportation research and data mining

**Driver Behaviour and Training** Lisa Dorn, 2017-07-12 This title was first published in 2003 Research on driver behaviour over the past two decades has demonstrated that driver characteristics goals and motivations are important determinants of driving behaviour We are now in a position to apply this knowledge to driver training programs and evaluate their effectiveness in improving safety The main objective for the First International Conference on Driver Behaviour and Training and this book is to describe and discuss recent advances in this field The book bridges the gap between practitioners in road safety and theoreticians investigating driving behaviour from a number of different perspectives and related disciplines It will encourage research in driver training to combat erroneous or deviant driving behaviour and or reduce the effects of human error at source This book will be of interest to road safety researchers and road safety practitioners in the private and public sector

Driver Behaviour and Training: Volume 2 Dr. Lisa Dorn, 2017-07-05 Research on driver behaviour over the past two decades has clearly demonstrated that the goals and motivations a driver brings to the driving task are important determinants for driver behaviour The importance of this work is underlined by statistics WHO figures show that road accidents are predicted to be the number three cause of death and injury by 2020 currently more than 20 million deaths and injuries p a The objective of this second edition and of the conference on which it is based is to describe and discuss recent advances in the study of driving behaviour and driver training It bridges the gap between practitioners in road safety and theoreticians investigating driving behaviour from a number of different perspectives and related disciplines A major focus is to consider how driver training needs to be adapted to take into account driver characteristics goals and motivations in order to raise awareness of how these may contribute to unsafe driving behaviour and to go on to promote the development of driver training courses that considers all the skills that are essential for road safety As well as setting out new approaches to driver training methodology based on many years of empirical research on driver behaviour the contributing road safety researchers and professionals consider the impact of

human factors in the design of driver training as well as the traditional skills based approach Readership includes road safety researchers from a variety of different academic backgrounds senior practitioners in the field of driver training from regulatory authorities and professional driver training organizations such as the police service and private and public sector personnel who are concerned with improving road safety Driver Behaviour and Training: Volume 4 Lisa Dorn,2024-11-01 This book considers how driver training needs to be adapted in order to raise awareness of how human factors contribute to unsafe driving behaviour It promotes the development of driver education that considers all the skills that are essential for road safety Handbook of Public Transport Research Graham Currie,2021-04-30 Providing a comprehensive overview and analysis of the latest research in the growing field of public transport studies this Handbook looks at the impact of urbanisation and the growth of mega cities on public transport Chapters examine the significant challenges facing the field that require new and original solutions including congestion and environmental relief and the social equity objectives that justify public transport in cities **Human Factors of Visual and Cognitive Performance in Driving** Candida Castro,2008-11-21 Human error is involved in more than 90 percent of traffic accidents and of those accidents most are associated with visual distractions or looking but failing to see errors Human Factors of Visual and Cognitive Performance in Driving gathers knowledge from a human factors psychology standpoint and provides deeper insight into traffic user behaviour

Driving Lessons J. Peter Rothe,2002-09-20 With the exception of modern warfare no other human activity has destroyed as many lives as driving a motor vehicle Traffic crashes kill and injure thousands of Canadians every year at an incalculable financial and emotional cost to society but rather than rush to stem this tide of human carnage policy makers seem to accept the ghastly toll as the price we pay for mobility Driving Lessons takes a fresh look at the complexities of the road transportation system in depth going far beyond the symptomatic linear reductionist approach It challenges current traffic safety paradigms that simply blame the driver or target villains and scapegoats like impaired or high risk drivers It takes issue with road transportation system management that sometimes puts mobility ahead of the safety of road users As one researcher notes human beings will make mistakes and accordingly the road transportation system must be designed so that people's mistakes do not have disastrous consequences

## The Enigmatic Realm of **Traffic And Transport Psychology Theory And Application**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Traffic And Transport Psychology Theory And Application** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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